Portable, Lightweight Membrane Nitrogen Systems

by DCE International, LLC

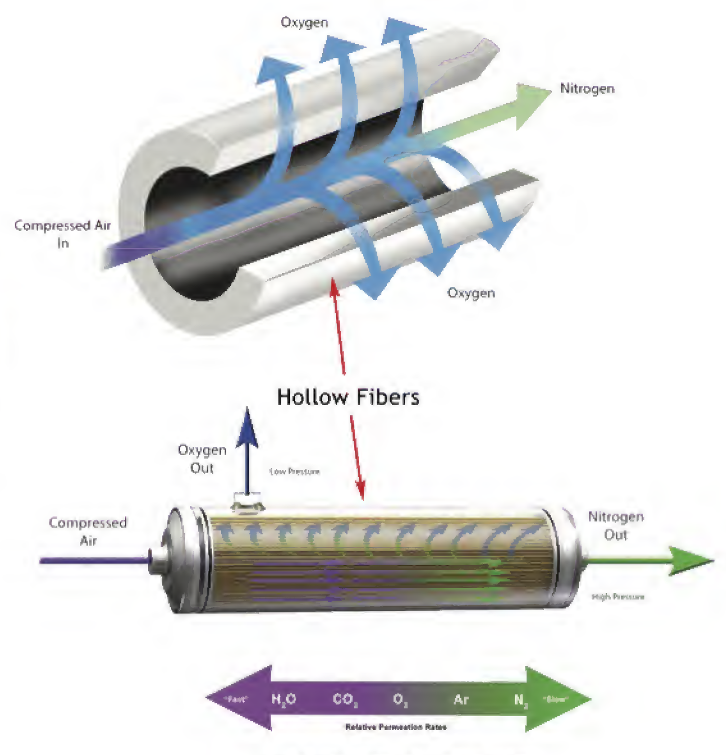
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FEATURES

- 99.9%-92.0% Nitrogen Purity
- Continuous Nitrogen Supply
- High Efficiency Membrane Fiber Technology
- Integrated Manifold & Silencer
- PLC Controller with a UPS & Battery Backup
- Highly reliable performance
- Rated for offshore use

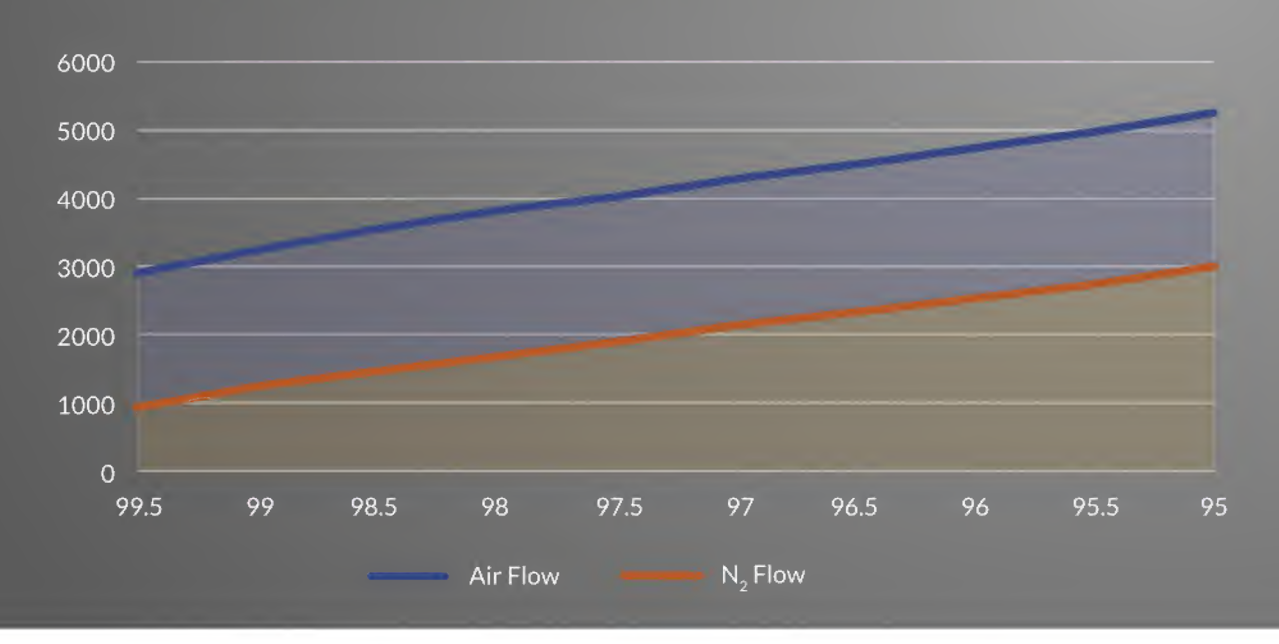






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Membrane separators generate nitrogen gas onsite. Each membrane separator contains thousands of asymmetric hollow fibers that act as a molecular filter. When high-pressure gas mixtures enter the separator, the gas components divide as a result of selective permeation. Fast gases (such as oxygen) permeate easily through the membrane wall and exit the side port. Slow gases (such as nitrogen) have a difficult time passing through the membrane wall and travel the bore of the fiber exiting through the port at the end of the shell.



Model	MNU 750	MNU 1500	MNU 3000
N_2 Output @ 95% N_2 + O_2 and inerts	750 scfm	1,500 scfm	3,000 scfm
Feed Air Required @ Design Pressure & Temperature	1,316 scfm	2,632 scfm	5,264 scfm
Design Pressure	325 psig / 22.5 barg		
Design Temperature	125˚F / 51.7˚C		
Maximum Working Pressure	375 psig / 26 barg		
Product Dew Point @ Atmosphere	≤ -60˚F		
Electrical Power	24vdc or 480vac / 3phase / 60Hz		
Weight, lbs	9,500	11,200	21,500
Dimensions (LxWxH) inches	120 x 96 x 102		240 x 96 x 102
Controls	PLC Based with Automatic & Manual Control		
Standards & Classification	ASME & UL		
Optional Standards & Classifications	Class 1 Div. 2,		
Oxygen Monitoring, Continuous	Non-Depleting Sensor, Standard		
N_2 Flow Monitoring, Continuous	Flow Computer, Standard		
Optional Features	Dew Point, Air Flow & Process Pressure Monitoring. Remote Telemetry, Pre-cooler, Winterization		

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